

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
27 June 2024 (27.06.2024)



(10) International Publication Number
WO 2024/138190 A1

(51) International Patent Classification:

C07D 401/04 (2006.01) A61K 31/4439 (2006.01)
A61P 11/00 (2006.01)

(21) International Application Number:

PCT/US2023/085811

(22) International Filing Date:

22 December 2023 (22.12.2023)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/477,000 23 December 2022 (23.12.2022) US

(71) Applicant: **BRISTOL-MYERS SQUIBB COMPANY**
[US/US]; Route 206 and Province Line Road, Princeton,
New Jersey 08543 (US).

(72) Inventor: **TAO, Shiwei**; c/o Bristol-Myers Squibb Compa-
ny, Route 206 and Province Line Road, Princeton, New Jer-
sey 08543 (US).

(74) Agent: **CALVO, Paul A.** et al.; Sterne, Kessler, Goldstein
& Fox P.L.L.C., 1101 K Street, NW, 10th Floor, Washing-
ton, District of Columbia 20005 (US).

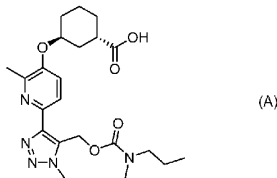
(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ,
CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM,
DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,
HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG,
KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY,
MA, MD, MG, MK, MN, MU, MW, MX, MY, MZ, NA,
NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO,
RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH,
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS,
ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, CV,
GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, SD, SL, ST,
SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ,
RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ,
DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT,
LU, LV, MC, ME, MK, MT, NL, NO, PL, PT, RO, RS, SE,
SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments (Rule 48.2(h))

(54) Title: CRYSTALLINE FORMS OF A LPAI ANTAGONIST



(57) Abstract: Described herein is the LPAi antagonist (1S,3S)-3-((2-methyl-6-((1-methyl-5-(((methyl(propyl)carbamoyl)oxy)methyl)-1H-1,2,3-triazol-4-yl)pyridin-3-yl)oxy)cyclohexane-1-carboxylic acid, including crystalline forms of Compound (A) and preparations thereof. Also disclosed are pharmaceutical compositions that include the LPAi antagonist, methods of using the LPAi antagonist for the treatment of interstitial lung disease.